



*Handwritten: \$/COFC*

PATENT--FEE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	)	I hereby certify that this
CHANCHAL SADHU ET AL.	)	paper is being deposited
	)	with the United States
Patent No. 6,949,535	)	Postal Service with suffi-
	)	cient postage, as first
Issued: September 27, 2005	)	class mail, in an envelope
	)	addressed to:
Serial No. 10/697,912	)	
	)	Commissioner for Patents
Filed: October 30, 2003	)	P.O. Box 1450
	)	Alexandria, VA 22313-1450.
For: INHIBITORS OF HUMAN	)	Dated: August 7, 2006
PHOSPHATIDYL-INOSITOL 3-KINASE	)	
DELTA	)	
Attorney Docket No. 27866/36170D	)	
	)	
	)	<i>James J. Napoli</i>
	)	James J. Napoli
	)	Registration No. 32,361
	)	Attorney for Applicants

**REQUEST FOR CERTIFICATE OF  
CORRECTION UNDER RULES 322(a) & 323**

**Certificate  
AUG 15 2006  
of Correction**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Patentees respectfully request a Certificate of Correction to be issued for the above-identified U.S. Patent correcting the patent as noted in the attached "Certificate of Correction" form PTO 1050. Duplicate copies of the form are attached hereto.

Errors in the patent can be verified by reference to the application as follows:

08/14/2006 MBIZUNE2 00000038 6949535  
01 FC:1811 100.00 OP

**AUG 15 2006**



Appln. Page #	Appln. Line #	Column #	Line #	Error by
2	20	1	49	PTO
6	16	3	30	PTO
10	24	5	24	PTO
17	2	8	38	Applicants
20	22-23	10	14	PTO
21	12-13	10	35-36	PTO
21	25	10	46	PTO
21	29-30	10	50	PTO
32	30	10	51	PTO
23	19	11	30	PTO
23	19-20	11	31	Applicants
26	20	12	50	Applicants
32	12	15	27	Applicants
36	6	17	16	PTO
36	10	17	20	PTO
38	16-17	18	24	PTO
39	22-23	18	56	PTO
48	24	22	2	Applicants
52	2	23	37	Applicants
55	2	24	61	PTO
59	11	26	46	Applicants
59	18-19	26	52	PTO
59	19	26	53	PTO
62	13	27	66	Applicants
71	2	31	40	PTO
73	12	32	38	PTO
73	13	32	39	PTO
77	27	34	28	PTO
78	24-25	34	55	PTO
79	23	35	17	Applicants
80	17-18	35	37	PTO
82	5	36	16	PTO
83	3-4	36	40	PTO
83	7	36	43	PTO
83	27	36	60	Applicants
87	33	38	41	PTO
88	21	38	60	PTO
88	23	38	62	PTO
89	9	39	13	PTO
102	8	44	32	Applicants
102	20	44	43	PTO

AUG 15 2006

Appln. Page #	Appln. Line #	Column #	Line #	Error by
102	30	44	53	PTO
110	4	47	48	Applicants
110	20	47	61	PTO
110	27	47	67	PTO
111	8	48	8-9	PTO
116	7	49	66	PTO
117	10-11	50	22	PTO
117	31-32	50	37	PTO
124	8	52	51	PTO
124	22	52	61	PTO
128	31	54	43	PTO
129	20	54	61	PTO
130	9	55	12	PTO
132	1	55	57	Applicants
132	10	55	65	PTO
132	33	56	16	PTO
133	14	56	35	PTO
134	20-21	56	58	PTO
135	15	57	13	PTO
136	22	57	41	PTO
138	1	58	12	PTO
138	27	58	32	PTO
139	20	58	50	PTO
140	10	59	3	PTO
141	25	59	41	PTO
142	20	59	59	PTO
142	34	60	2	Applicants
143	32-33	60	29	PTO
144	23	60	47	PTO
145	6	60	61	PTO
145	17	61	4	Applicants
145	17	61	4	PTO
146	6	61	21	PTO
146	29	61	40	PTO
147	12	61	51	Applicants
148	11	62	12	PTO
148	24	62	21-22	PTO
148	34	62	30	PTO
149	1	62	31	PTO
149	1-2	62	32	Applicants
149	4	62	33-34	PTO
149	10	62	39	PTO

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Appln. Page #	Appln. Line #	Column #	Line #	Error by
150	10	62	65-66	PTO
150	20	63	7	PTO
150	24	63	10	PTO
150	29	63	15	Applicants
150	30	63	16	PTO
151	28	63	41-42	PTO
152	3	63	50	Applicants
152	4	63	50	PTO
152	8	63	53-54	PTO
152	13	63	58	Applicants
152	14	63	59	PTO
152	26	64	3	Applicants
153	1	64	10	PTO
153	24	64	31	PTO
154	22	64	51	PTO
162	6	67	63	PTO
168	32	70	60	Applicants
168	33	70	61-62	PTO
170	18	71	45	PTO
170	24	71	50	PTO
171	15	71	66	PTO
171	16	71	67	PTO
171	22	72	5	PTO
172	8	72	30	PTO
177	first structure	74	approximately line 58	PTO
178	first structure	75	approximately line 23	PTO
178	31	75	51	PTO
179	21	76	2	PTO
179	32	76	12	PTO
180	17	76	24	Applicants
181	4	76	47	Applicants
181	5	76	48	Applicants
181	6	76	49	Applicants
181	21	77	7	Applicants
181	22	77	8	Applicants
181	23-24	77	9	Applicants
181	25	77	10	Applicants
183	14	77	67	Applicants
183	15	78	1	Applicants
183	16-17	78	2	Applicants
184	6	78	35	Applicants

Appln. Page #	Appln. Line #	Column #	Line #	Error by
184	first structure	78	45	PTO
184	24	78	65	Applicants
184	25	78	66	Applicants
185	14	79	28	PTO
186	19	79	66	Applicants
187	17	80	29	PTO
187	18-19	80	35	Applicants
195	10	84	8	PTO
196	18	84	46	PTO
196	38	84	66	Applicants
197	10	85	14	Applicants
201	34	87	34	Applicants
202	15	87	48	Applicants
203	10	88	11	Applicants
204	25	88	61	Applicants
205	35	89	30	Applicants
206	30	89	66	Applicants
209	15	91	21	Applicants
210	18	92	33	PTO
211	3	92	43	PTO
211	7	92	46	PTO
211	25	92	66	Applicants
211	27	93	1	PTO
212	7	93	35	PTO
212	12	93	40	PTO
212	18	93	45	Applicants
212	20	93	47	PTO
213	24	94	6	PTO
213	24-25	94	7	PTO
213	28	94	11	Applicants
213	30	94	13	Applicants
214	18	94	31	PTO
215	21	94	60	PTO
216	21	95	16	PTO
217	19	95	43	PTO
218	22	96	5	PTO
219	19-20	96	59	Applicants
219	22-23	96	61	PTO
220	24	97	18	PTO
220	25	97	19	PTO
221	27	97	66	PTO

AUG 15 2006

Appln. Page #	Appln. Line #	Column #	Line #	Error by
221	29	98	1	Applicants
233	line starting with D-047	103	8	Applicants
236	9-10	103	66	PTO
236	16	104	4	PTO
237	6	104	29	Applicants
237	28-29	104	54	Applicants
Pre. Amd. dated 10-30-03, page 8	13	123	66	PTO
Pre. Amd. dated 10-30-03, page 8	29	124	17	PTO
Pre. Amd. dated 10-30-03, page 9	17	124	37	PTO
Pre. Amd. dated 10-30-03, page 10	25	125	12	PTO
Pre. Amd. dated 10-30-03, page 10	28	125	14	PTO
Pre. Amd. dated 10-30-03, page 11	5	125	25	PTO
Pre. Amd. dated 10-30-03, page 11	23	125	46	PTO
Pre. Amd. dated 10-30-03, page 13	4	126	28	PTO
Pre. Amd. dated 10-30-03, page 15	10	127	7	PTO
Pre. Amd. dated 10-30-03, page 16	17	127	55	PTO
Pre. Amd. dated 10-30-03, page 18	28	129	1	PTO
Pre. Amd. dated 10-30-03, page 24	4-5	130	36	PTO

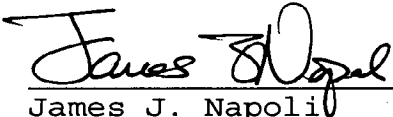
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Appln. Page #	Appln. Line #	Column #	Line #	Error by
Pre. Amd. dated 10-30-03, page 27	4	131	20	PTO
Pre. Amd. dated 10-30-03, page 28	3	132	1	PTO
Pre. Amd. dated 10-30-03, page 28	11	132	11	PTO

Our check in the amount of \$100.00 to correct the error(s) by patentee(s) is submitted herewith.

Respectfully submitted,

**MARSHALL, GERSTEIN & BORUN LLP**

By   
 James J. Napoli  
 (Registration No. 32,361)  
 Attorneys for Applicants  
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 233 South Wacker Drive  
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Chicago, Illinois  
 August 7, 2006

AUG 15 2006

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,949,535  
DATED : September 27, 2005  
INVENTOR(S) : Sadhu et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1, line 49, "In vitro" should be italicized

Column 3, line 30, "Immunity" should be italicized

Column 5, line 24, "10-told" should be -- 10-fold --

Column 8, line 38, delete "is"

Column 10, line 14, "in vitro," "in vivo," and "ex vivo" all should be italicized

Column 10, lines 35, 36, "in vitro," "in vivo," and "ex vivo" all should be italicized

Column 10, line 46, "in vivo" should be italicized

Column 10, line 50, "ex vivo" should be italicized

Column 10, line 51, "In vitro" should be italicized

Column 11, line 30, "(IC<sub>50</sub>" should be -- (IC<sub>50</sub>) --

Column 11, line 31, delete second occurrence of "at least"

MAILING ADDRESS OF SENDER:  
James J. Napoli, Ph.D.  
MARSHALL, GERSTEIN & BORUN LLP  
233 S. Wacker Drive, Suite 6300  
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Chicago, Illinois 60606-6357

PATENT NO.: 6,949,535

No. of additional copies: 1

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DATED : September 27, 2005  
INVENTOR(S) : Sadhu et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 12, line 50, "(9h" should be -- (9H --  
Column 15, line 27, "-3h-" should be -- -3H- --  
Column 17, line 16, insert -- O, C(=O), -- between "NH," and "OC(=O)," and delete second occurrence of "OC(=O),"  
Column 17, line 20, "C<sub>3</sub>alkylene" should be -- C<sub>1-3</sub>alkylene --  
Column 18, line 24, "decahydro-naphthyl" should be -- decahydronaphthyl --  
Column 18, line 56, "tetra-hydronaphthyl" should be -- tetrahydronaphthyl --  
Column 22, line 2, "3h" should be -- 3H --  
Column 23, line 37, "3h" should be -- 3H --  
Column 24, line 61, "in vivo" should be italicized  
Column 26, line 46, "than" should be -- that --  
Column 26, line 52, "in vitro" (both occurrences) should be italicized

MAILING ADDRESS OF SENDER:  
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PATENT NO.: 6,949,535

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 26, line 53, "in vivo" should be italicized  
Column 27, line 66, "and or" should be -- and/or --  
Column 31, line 40, "in vitro" should be italicized  
Column 32, line 38, "in vivo" should be italicized  
Column 32, line 39, "in vivo" should be italicized  
Column 34, line 28, "in situ" should be italicized  
Column 34, line 55, "in situ" should be italicized  
Column 35, line 17, "pharmaceutical" should be -- pharmaceutically --  
Column 35, line 37, "intra-medullary" should be -- intramedullary --  
Column 36, line 16, "inter alia" should be italicized  
Column 36, line 40, "in vivo" should be italicized (both occurrences)  
Column 36, line 43, "in vitro" and "in vivo" should be italicized

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 36, line 60, -- "LD50/ED50" should be -- LD<sub>50</sub>/ED<sub>50</sub> --  
Column 38, line 41, "EcOR1-Not1" should be -- EcoR1-Not1 --  
Column 38, line 60, "BamH1-EcOR1" should be -- BamH1-EcoR1 --  
Column 38, line 62, "BamH1-EcOR1" should be -- BamH1-EcoR1 --  
Column 39, line 13, "HCl," should be -- HCl, --  
Column 44, line 32, "U/mL)" should be -- µ/mL) --  
Column 44, line 43, "ImmunOResearch" should be -- ImmunoResearch --  
Spec., page 102, line 20 - PTO  
Column 44, line 53, "ImmunOResearch" should be -- ImmunoResearch --  
Column 47, line 48, "EtOAc" should be -- EtOAc --  
Column 47, line 61, "in vacuo" should be italicized  
Column 47, line 67, "in vacuo" should be italicized

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INVENTOR(S) : Sadhu et al.

It is certified that error appears in the above-identified patent and that said Letters  
Patent is hereby corrected as shown below:

Column 48, lines 8-9, "in vacuo" should be italicized

Column 49, line 66, "CH<sub>2</sub>CO<sub>2</sub>" should be -- CH<sub>2</sub>Cl<sub>2</sub> --

Column 50, line 22, "(br S," should be -- (br s, --

Column 50, line 37, "(br S," should be -- (br s, --

Column 52, line 51, "CH<sub>2</sub>Cl<sub>21</sub>" should be -- CH<sub>2</sub>Cl<sub>2</sub>, --

Column 52, line 61, "CH<sub>2</sub>Cl<sub>21</sub>" should be -- CH<sub>2</sub>Cl<sub>2</sub>, --

Column 54, line 43, "O<sub>3</sub>." should be -- O<sub>3</sub>• -- and  
"O..05KCl" should be -- O•.05KCl --

Column 54, line 61, "O.0.1" should be -- O•0.1 --

Column 55, line 12, "O.0.1" should be -- O•0.1 --

Column 55, line 57, "245.7-246.0°" should be  
-- 245.7-246.0°C --

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It is certified that error appears in the above-identified patent and that said Letters  
 Patent is hereby corrected as shown below:

Column 55, line 65, " $C_{20}H_{13}$ " should be --  $C_{20}H_{13}$  --;  
 " $N_7O.01$ " should be --  $N_7O\bullet 0.1$  --; and " $O.0.05$ " should be  
 --  $O\bullet 0.05$  --

Column 56, line 16, " $N_7O.H$ " should be --  $N_7O\bullet H$  --

Column 56, line 35, " $N_7O.0.1$ " should be --  $N_7O\bullet 0.1$  -- and  
 " $O.0.6$ " should be --  $O\bullet 0.6$  --

Column 56, line 58, delete "kinases" between "6-" and "mercaptapurine"

Column 57, line 13, " $\delta$ " should be --  $\delta$ : --

Column 57, line 41, " $O.0.05$ " should be --  $O\bullet 0.05$  --

Column 58, line 12, " $S.0.15$ " should be --  $S\bullet 0.15$  -- and  
 " $O.0.05$ " should be --  $O\bullet 0.05$  --

Column 58, line 32, " $S.0.5$ " should be --  $S\bullet 0.5$  --

Column 58, line 50, " $S.0.15$ " should be --  $S\bullet 0.15$  -- and  
 " $O.0.05$ " should be --  $O\bullet 0.05$  --

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It is certified that error appears in the above-identified patent and that said Letters  
Patent is hereby corrected as shown below:

Column 59, line 3, "S.0.2" should be -- S•0.2 -- and  
"O.0.05" should be -- O•0.05 --

Column 59, line 41, "S.0.2" should be -- S•0.2 -- and  
"O.0.05" should be -- O•0.05 --

Column 59, line 59, "S.0.1" should be -- S•0.1 --  
and "O.0.6" should be -- O•0.6 --

Column 60, line 2, "212.7°" should be -- 212.7°C --

Column 60, line 29, "S.0.4" should be -- S•0.4 -- and  
"O.0.4" should be -- O•0.4 --

Column 60, line 47, "S.0.4" should be -- S•0.4 -- and  
"O.0.05" should be -- O•0.05 --

Column 60, line 61, "in vacuo" should be italicized

Column 61, line 4, "(2" should be deleted

Column 61, line 4, "S.0.1" should be -- S•0.1 --

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Patent is hereby corrected as shown below:

Column 61, line 21, "S.C<sub>2</sub>H<sub>6</sub>O.0.3" should be -- S•C<sub>2</sub>H<sub>6</sub>O•0.3 --

Column 61, line 40, "S.0.65" should be -- S•0.65 -- and  
"O.0.1" should be -- O•0.1 --

Column 61, line 51, "136(C)" should be -- 136°C --

Column 62, line 12, "S.0.2" should be -- S•0.2 -- and  
"O.0.1" should be -- O•0.1 --

Column 62, line 21-22, "in vacuo" should be italicized

Column 62, line 30, "in vacuo" should be italicized

Column 62, line 31, "HOAC" should be -- HOAc --

Column 62, line 32, "chloro-actyl" should be -- chloroacetyl --

Column 62, lines 33-34, "in vacuo" should be italicized

Column 62, line 39, "in vacuo" should be italicized

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Column 62, lines 65-66, "in vacuo" should be italicized

Column 63, line 7, "in vacuo" should be italicized

Column 63, line 10, "in vacuo" should be italicized

Column 63, line 15, "were" should be -- was --

Column 63, line 16, "in vacuo" should be italicized

Column 63, lines 41-42, "in vacuo" should be italicized

Column 63, line 50, "were" should be -- was --

Column 63, line 50, "in vacuo" should be italicized

Column 63, lines 53-54, "in vacuo" should be italicized

Column 63, line 58, "were" should be -- was --

Column 63, line 59, "in vacuo" should be italicized

Column 64, line 3, "1H0" should be -- 1H) --

Column 64, line 10, "S.O.15" should be -- S●0.15 --

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 Patent is hereby corrected as shown below:

Column 64, line 31, "O.0.1H<sub>2</sub>O.0.05" should be -- O●0.1H<sub>2</sub>O●0.05 --  
 Column 64, line 51, "O<sub>2</sub>.0.5H<sub>2</sub>O.0.04" should be -- O<sub>2</sub>●0.5H<sub>2</sub>O●0.04 --  
 Column 67, line 63, "(10" should be -- (100 --  
 Column 70, line 60, "0.22 um" should be -- 0.22 μM --  
 Column 70, lines 61-62, "in vacuo" should be italicized  
 Column 71, line 45, "in vacuo" should be italicized  
 Column 71, line 50, "in vacuo" should be italicized  
 Column 71, line 66, "mL) -was" should be -- mL) was --  
 Column 71, line 67, "in vacuo" should be italicized  
 Column 72, line 5, "in vacuo" should be italicized  
 Column 72, line 30, "in vacuo" should be italicized

MAILING ADDRESS OF SENDER:  
 James J. Napoli, Ph.D.  
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PATENT NO.: 6,949,535

No. of additional copies: 1

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,949,535  
DATED : September 27, 2005  
INVENTOR(S) : Sadhu et al.

It is certified that error appears in the above-identified patent and that said Letters  
Patent is hereby corrected as shown below:

Column 74, approximately line 58, last structure, "HN" in center of  
structure should be -- NH --

Column 75, approximately line 23, "HN" in center of structure should be  
-- NH --

Column 75, line 51, "in vacuo" should be italicized

Column 76, line 2, "in vacuo" should be italicized

Column 76, line 12, "in vacuo" should be italicized

Column 76, line 24, "in vacuo" should be italicized

Column 76, line 47, "Hz.," should be -- Hz, --

Column 76, line 48, "Hz.," should be -- Hz, --, both occurrences

Column 76, line 49, "Hz.," should be -- Hz, --, both occurrences

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It is certified that error appears in the above-identified patent and that said Letters  
Patent is hereby corrected as shown below:

Column 77, line 7, "Hz.," should be -- Hz, --  
Column 77, line 8, "Hz.," should be -- Hz, --, both occurrences  
Column 77, line 9, "Hz.," should be -- Hz, --, both occurrences  
Column 77, line 10, "Hz.," should be -- Hz, --  
Column 77, line 67, "Hz.," should be -- Hz, --  
Column 78, line 1, "Hz.," should be -- Hz, --  
Column 78, line 2, "Hz.," should be -- Hz, --, both occurrences  
Column 78, line 35, "Hz.," should be -- Hz, --  
Column 78, line 45, "HN" should be -- S --  
Column 78, line 65, "Hz.," should be -- Hz, --, both occurrences  
Column 78, line 66, "Hz.," should be -- Hz, --  
Column 79, line 28, "500°C" should be -- 50°C --

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Column 79, line 66, "Hz.," should be -- Hz, --  
Column 80, line 29, "in vacuo" should be italicized  
Column 80, line 35, "Hz.," should be -- Hz, --, both occurrences  
Column 84, line 8, "in vacuo" should be italicized  
Column 84, line 46, "(S," should be -- (s, --, both occurrences  
Column 84, line 66, should "(5," be -- (s, --  
Column 85, line 14, "1H0" should be -- 1H), --  
Column 87, line 34, "3H0," should be -- 3H), --  
Column 87, line 48, "7.47 9d," should be -- 7.47 (d, --  
Column 88, line 11, "7.69 t," should be -- 7.69 (t, --  
Column 88, line 61, "7.34 9d," should be -- 7.34 (d, --  
Column 89, line 30, "(br s." should be -- (br s, --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 89, line 30, "(br s." should be -- (br s, --  
Column 89, line 66, "(T," should be -- (t, --  
Column 91, line 21, "7.27 9d," should be -- 7.27 (d, --  
Column 92, line 33, "in vacuo" should be italicized  
Column 92, line 43, "in vacuo" should be italicized  
Column 92, line 46, "in vacuo" should be italicized  
Column 92, line 66, "0.22 um" should be -- 0.22  $\mu$ M --  
Column 93, line 1, "in vacuo" should be italicized  
Column 93, line 35, "in vacuo" should be italicized  
Column 93, line 40, "in vacuo" should be italicized  
Column 93, line 45, "0.22 um" should be -- 0.22  $\mu$ M --  
Column 93, line 47, "in vacuo" should be italicized

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 94, line 6, "220x)." should be -- 220λ). --  
Column 94, line 7, "in vacuo" should be italicized  
Column 94, line 11, "7/43" should be -- 7.43 --  
Column 94, line 13, "(5," should be -- (s, --  
Column 94, line 31, "in vacuo" should be italicized  
Column 94, line 60, "in vacuo" should be italicized  
Column 95, line 16, "in vacuo" should be italicized  
Column 95, line 43, "in vacuo" should be italicized  
Column 96, line 5, "in vacuo" should be italicized  
Column 96, line 59, delete second occurrence of "4.6x250mm."  
Column 96, line 61, "in vacuo" should be italicized  
Column 97, line 18, "220x)." should be -- 220λ). --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 97, line 19, "in vacuo" should be italicized

Column 97, line 66, "in vacuo" should be italicized

Column 98, line 1, "(S," should be -- (s, --

Column 103, line 8 (line starting with D-047), should "0.3±0.1." be  
-- 0.3±0.1 -- ?

Column 103, line 66, "in vivo" should be italicized

Column 104, line 4, "in vivo" should be italicized

Column 104, line 29, "2.5 ng" should be -- 2.5 mg --

Column 104, line 54, "0.5 ng" should be -- 0.5 mg --

Column 123, line 66, "ylsulfanylrnethyl" should be  
-- ylsulfanylmethyl --

Column 124, line 17, "ylsulfanylinethyl" should be  
-- ylsulfanylmethyl --

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It is certified that error appears in the above-identified patent and that said Letters  
Patent is hereby corrected as shown below:

Column 124, line 37, "ylaminomethyl]" should be  
-- ylamino)methyl] --

Column 125, line 12, "ylsulfanylinethyl" should be  
-- ylsulfanylmethyl --

Column 125, line 14, "pyrimidifl" should be -- pyrimidin --

Column 125, line 25, "yimethyl)" should be -- ylmethyl) --

Column 125, line 46, "yimethyl)" should be -- ylmethyl) --

Column 126, line 28, "3-y([" should be -- 3-yl] --

Column 127, line 7, "C(O)" should be -- C(=O) --

Column 127, line 55, "menibered" should be -- membered --

Column 129, line 1, "R<sup>d</sup>" should be -- R<sup>a</sup> --

Column 130, line 36, ", specific" should be -- . Specific --

Column 131, line 20, "OCR<sup>3</sup>" should be -- OCH<sub>3</sub> --

Column 132, line 1, "9ylmethyl" should be -- 9-ylmethyl --

Column 132, line 11, "6ylamino" should be -- 6-ylamino --

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INVENTOR(S) : Sadhu et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1, line 49, "In vitro" should be italicized

Column 3, line 30, "Immunity" should be italicized

Column 5, line 24, "10-told" should be -- 10-fold --

Column 8, line 38, delete "is"

Column 10, line 14, "in vitro," "in vivo," and "ex vivo" all should be italicized

Column 10, lines 35, 36, "in vitro," "in vivo," and "ex vivo" all should be italicized

Column 10, line 46, "in vivo" should be italicized

Column 10, line 50, "ex vivo" should be italicized

Column 10, line 51, "In vitro" should be italicized

Column 11, line 30, "(IC<sub>50</sub>" should be -- (IC<sub>50</sub>) --

Column 11, line 31, delete second occurrence of "at least"

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 12, line 50, "(9h" should be -- (9H --

Column 15, line 27, "-3h-" should be -- -3H- --

Column 17, line 16, insert -- O, C(=O), -- between "NH," and "OC(=O)," and delete second occurrence of "OC(=O),"

Column 17, line 20, "C<sub>3</sub>alkylene" should be -- C<sub>1-3</sub>alkylene --

Column 18, line 24, "decahydro-naphthyl" should be -- decahydronaphthyl --

Column 18, line 56, "tetra-hydronaphthyl" should be -- tetrahydronaphthyl --

Column 22, line 2, "3h" should be -- 3H --

Column 23, line 37, "3h" should be -- 3H --

Column 24, line 61, "in vivo" should be italicized

Column 26, line 46, "than" should be -- that --

Column 26, line 52, "in vitro" (both occurrences) should be italicized

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 26, line 53, "in vivo" should be italicized  
Column 27, line 66, "and or" should be -- and/or --  
Column 31, line 40, "in vitro" should be italicized  
Column 32, line 38, "in vivo" should be italicized  
Column 32, line 39, "in vivo" should be italicized  
Column 34, line 28, "in situ" should be italicized  
Column 34, line 55, "in situ" should be italicized  
Column 35, line 17, "pharmaceutical" should be -- pharmaceutically --  
Column 35, line 37, "intra-medullary" should be -- intramedullary --  
Column 36, line 16, "inter alia" should be italicized  
Column 36, line 40, "in vivo" should be italicized (both occurrences)  
Column 36, line 43, "in vitro" and "in vivo" should be italicized

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 36, line 60, -- "LD50/ED50" should be -- LD<sub>50</sub>/ED<sub>50</sub> --  
Column 38, line 41, "EcOR1-Not1" should be -- EcoR1-Not1 --  
Column 38, line 60, "BamH1-EcOR1" should be -- BamH1-EcoR1 --  
Column 38, line 62, "BamH1-EcOR1" should be -- BamH1-EcoR1 --  
Column 39, line 13, "HCl," should be -- HCl, --  
Column 44, line 32, "U/mL)" should be -- μ/mL) --  
Column 44, line 43, "ImmunOResearch" should be -- ImmunoResearch --  
Spec., page 102, line 20 - PTO  
Column 44, line 53, "ImmunOResearch" should be -- ImmunoResearch --  
Column 47, line 48, "EtOAc" should be -- EtOAc --  
Column 47, line 61, "in vacuo" should be italicized  
Column 47, line 67, "in vacuo" should be italicized

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 48, lines 8-9, "in vacuo" should be italicized

Column 49, line 66, "CH<sub>2</sub>CO<sub>2</sub>" should be -- CH<sub>2</sub>Cl<sub>2</sub> --

Column 50, line 22, "(br S," should be -- (br s, --

Column 50, line 37, "(br S," should be -- (br s, --

Column 52, line 51, "CH<sub>2</sub>Cl<sub>21</sub>" should be -- CH<sub>2</sub>Cl<sub>2</sub>, --

Column 52, line 61, "CH<sub>2</sub>Cl<sub>21</sub>" should be -- CH<sub>2</sub>Cl<sub>2</sub>, --

Column 54, line 43, "O<sub>3</sub>." should be -- O<sub>3</sub>• -- and  
 "O..05KCl" should be -- O•.05KCl --

Column 54, line 61, "O.0.1" should be -- O•0.1 --

Column 55, line 12, "O.0.1" should be -- O•0.1 --

Column 55, line 57, "245.7-246.0°" should be  
 -- 245.7-246.0°C --

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Column 55, line 65, " $C_{20H_{13}}$ " should be --  $C_{20}H_{13}$  --;  
 " $N_7O.01$ " should be --  $N_7O\bullet 0.1$  --; and " $O.0.05$ " should be  
 --  $O\bullet 0.05$  --

Column 56, line 16, " $N_7O.H$ " should be --  $N_7O\bullet H$  --

Column 56, line 35, " $N_7O.0.1$ " should be --  $N_7O\bullet 0.1$  -- and  
 " $O.0.6$ " should be --  $O\bullet 0.6$  --

Column 56, line 58, delete "kinases" between "6-" and "mercaptapurine"

Column 57, line 13, " $\delta$ " should be --  $\delta$ : --

Column 57, line 41, " $O.0.05$ " should be --  $O\bullet 0.05$  --

Column 58, line 12, " $S.0.15$ " should be --  $S\bullet 0.15$  -- and  
 " $O.0.05$ " should be --  $O\bullet 0.05$  --

Column 58, line 32, " $S.0.5$ " should be --  $S\bullet 0.5$  --

Column 58, line 50, " $S.0.15$ " should be --  $S\bullet 0.15$  -- and  
 " $O.0.05$ " should be --  $O\bullet 0.05$  --

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Patent is hereby corrected as shown below:

Column 59, line 3, "S.0.2" should be -- S•0.2 -- and  
"O.0.05" should be -- O•0.05 --

Column 59, line 41, "S.0.2" should be -- S•0.2 -- and  
"O.0.05" should be -- O•0.05 --

Column 59, line 59, "S.0.1" should be -- S•0.1 --  
and "O.0.6" should be -- O•0.6 --

Column 60, line 2, "212.7°" should be -- 212.7°C --

Column 60, line 29, "S.0.4" should be -- S•0.4 -- and  
"O.0.4" should be -- O•0.4 --

Column 60, line 47, "S.0.4" should be -- S•0.4 -- and  
"O.0.05" should be -- O•0.05 --

Column 60, line 61, "in vacuo" should be italicized

Column 61, line 4, "(2" should be deleted

Column 61, line 4, "S.0.1" should be -- S•0.1 --

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Column 61, line 21, "S.C<sub>2</sub>H<sub>6</sub>O.0.3" should be -- S•C<sub>2</sub>H<sub>6</sub>O•0.3 --

Column 61, line 40, "S.0.65" should be -- S•0.65 -- and  
"O.0.1" should be -- O•0.1 --

Column 61, line 51, "136(C)" should be -- 136°C --

Column 62, line 12, "S.0.2" should be -- S•0.2 -- and  
"O.0.1" should be -- O•0.1 --

Column 62, line 21-22, "in vacuo" should be italicized

Column 62, line 30, "in vacuo" should be italicized

Column 62, line 31, "HOAC" should be -- HOAc --

Column 62, line 32, "chloro-actyl" should be -- chloroacetyl --

Column 62, lines 33-34, "in vacuo" should be italicized

Column 62, line 39, "in vacuo" should be italicized

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Patent is hereby corrected as shown below:

Column 62, lines 65-66, "in vacuo" should be italicized

Column 63, line 7, "in vacuo" should be italicized

Column 63, line 10, "in vacuo" should be italicized

Column 63, line 15, "were" should be -- was --

Column 63, line 16, "in vacuo" should be italicized

Column 63, lines 41-42, "in vacuo" should be italicized

Column 63, line 50, "were" should be -- was --

Column 63, line 50, "in vacuo" should be italicized

Column 63, lines 53-54, "in vacuo" should be italicized

Column 63, line 58, "were" should be -- was --

Column 63, line 59, "in vacuo" should be italicized

Column 64, line 3, "1H0" should be -- 1H) --

Column 64, line 10, "S.0.15" should be -- S•0.15 --

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Column 64, line 31, "O.O.1H<sub>2</sub>O.O.05" should be -- O●0.1H<sub>2</sub>O●0.05 --  
Column 64, line 51, "O<sub>2</sub>.0.5H<sub>2</sub>O.O.04" should be -- O<sub>2</sub>●0.5H<sub>2</sub>O●0.04 --  
Column 67, line 63, "(10" should be -- (100 --  
Column 70, line 60, "0.22 um" should be -- 0.22 μM --  
Column 70, lines 61-62, "in vacuo" should be italicized  
Column 71, line 45, "in vacuo" should be italicized  
Column 71, line 50, "in vacuo" should be italicized  
Column 71, line 66, "mL) -was" should be -- mL) was --  
Column 71, line 67, "in vacuo" should be italicized  
Column 72, line 5, "in vacuo" should be italicized  
Column 72, line 30, "in vacuo" should be italicized

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structure should be -- NH --

Column 75, approximately line 23, "HN" in center of structure should be  
-- NH --

Column 75, line 51, "in vacuo" should be italicized

Column 76, line 2, "in vacuo" should be italicized

Column 76, line 12, "in vacuo" should be italicized

Column 76, line 24, "in vacuo" should be italicized

Column 76, line 47, "Hz.," should be -- Hz, --

Column 76, line 48, "Hz.," should be -- Hz, --, both occurrences

Column 76, line 49, "Hz.," should be -- Hz, --, both occurrences

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PATENT NO.: 6,949,535

No. of additional copies: 1

AUG 15 2006

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,949,535  
DATED : September 27, 2005  
INVENTOR(S) : Sadhu et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 77, line 7, "Hz.," should be -- Hz, --  
Column 77, line 8, "Hz.," should be -- Hz, --, both occurrences  
Column 77, line 9, "Hz.," should be -- Hz, --, both occurrences  
Column 77, line 10, "Hz.," should be -- Hz, --  
Column 77, line 67, "Hz.," should be -- Hz, --  
Column 78, line 1, "Hz.," should be -- Hz, --  
Column 78, line 2, "Hz.," should be -- Hz, --, both occurrences  
Column 78, line 35, "Hz.," should be -- Hz, --  
Column 78, line 45, "HN" should be -- S --  
Column 78, line 65, "Hz.," should be -- Hz, --, both occurrences  
Column 78, line 66, "Hz.," should be -- Hz, --  
Column 79, line 28, "500°C" should be -- 50°C --

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INVENTOR(S) : Sadhu et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 79, line 66, "Hz.," should be -- Hz, --  
Column 80, line 29, "in vacuo" should be italicized  
Column 80, line 35, "Hz.," should be -- Hz, --, both occurrences  
Column 84, line 8, "in vacuo" should be italicized  
Column 84, line 46, "(S," should be -- (s, --, both occurrences  
Column 84, line 66, should "(5," be -- (s, --  
Column 85, line 14, "1H0" should be -- 1H), --  
Column 87, line 34, "3H0," should be -- 3H), --  
Column 87, line 48, "7.47 9d," should be -- 7.47 (d, --  
Column 88, line 11, "7.69 t," should be -- 7.69 (t, --  
Column 88, line 61, "7.34 9d," should be -- 7.34 (d, --  
Column 89, line 30, "(br s." should be -- (br s, --

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Patent is hereby corrected as shown below:

Column 89, line 30, "(br s." should be -- (br s, --  
Column 89, line 66, "(T," should be -- (t, --  
Column 91, line 21, "7.27 9d," should be -- 7.27 (d, --  
Column 92, line 33, "in vacuo" should be italicized  
Column 92, line 43, "in vacuo" should be italicized  
Column 92, line 46, "in vacuo" should be italicized  
Column 92, line 66, "0.22 um" should be -- 0.22  $\mu$ M --  
Column 93, line 1, "in vacuo" should be italicized  
Column 93, line 35, "in vacuo" should be italicized  
Column 93, line 40, "in vacuo" should be italicized  
Column 93, line 45, "0.22 um" should be -- 0.22  $\mu$ M --  
Column 93, line 47, "in vacuo" should be italicized

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DATED : September 27, 2005  
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 94, line 6, "220x)." should be -- 220 $\lambda$ ). --  
Column 94, line 7, "in vacuo" should be italicized  
Column 94, line 11, "7/43" should be -- 7.43 --  
Column 94, line 13, "(5," should be -- (s, --  
Column 94, line 31, "in vacuo" should be italicized  
Column 94, line 60, "in vacuo" should be italicized  
Column 95, line 16, "in vacuo" should be italicized  
Column 95, line 43, "in vacuo" should be italicized  
Column 96, line 5, "in vacuo" should be italicized  
Column 96, line 59, delete second occurrence of "4.6x250mm."  
Column 96, line 61, "in vacuo" should be italicized  
Column 97, line 18, "220x)." should be -- 220 $\lambda$ ). --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 97, line 19, "in vacuo" should be italicized

Column 97, line 66, "in vacuo" should be italicized

Column 98, line 1, "(S," should be -- (s, --

Column 103, line 8 (line starting with D-047), should "0.3±0.1." be  
-- 0.3±0.1 -- ?

Column 103, line 66, "in vivo" should be italicized

Column 104, line 4, "in vivo" should be italicized

Column 104, line 29, "2.5 ng" should be -- 2.5 mg --

Column 104, line 54, "0.5 ng" should be -- 0.5 mg --

Column 123, line 66, "ylsulfanylrnethyl" should be  
-- ylsulfanylmethyl --

Column 124, line 17, "ylsulfanylinethyl" should be  
-- ylsulfanylmethyl --

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DATED : September 27, 2005  
INVENTOR(S) : Sadhu et al.

It is certified that error appears in the above-identified patent and that said Letters  
Patent is hereby corrected as shown below:

Column 124, line 37, "ylaminomethyl]" should be  
-- ylamino)methyl] --

Column 125, line 12, "ylsulfanylinethyl" should be  
-- ylsulfanylmethyl --

Column 125, line 14, "pyrimidifl" should be -- pyrimidin --

Column 125, line 25, "yimethyl)" should be -- ylmethyl) --

Column 125, line 46, "yimethyl)" should be -- ylmethyl) --

Column 126, line 28, "3-y([" should be -- 3-yl] --

Column 127, line 7, "C(O)" should be -- C(=O) --

Column 127, line 55, "menibered" should be -- membered --

Column 129, line 1, "R<sup>d</sup>" should be -- R<sup>a</sup> --

Column 130, line 36, ", specific" should be -- . Specific --

Column 131, line 20, "OCR<sup>3</sup>" should be -- OCH<sub>3</sub> --

Column 132, line 1, "9ylmethyl" should be -- 9-ylmethyl --

Column 132, line 11, "6ylamino" should be -- 6-ylamino --

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